TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-27-07** **Date: 01-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Construction of Culverts at Singapura near Govt School Surrounding in ward no 11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M.D Srinivas, Maravenahalli Village, Devaganahalli (P), Chikkaballapura, (T) & (D)
Customer's Reference	:	BBMP/EE/BTP/WO/268/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-07/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	56	56	5.6	94.4	90-100	90-100	90-100	95-100
3	2.36 mm	138	194	19.4	80.6	60-95	75-100	85-100	95-100
4	1.18 mm	172	366	36.6	63.4	30-70	55-90	75-100	90-100
5	600 micron	118	484	48.4	51.6	15-34	35-59	60-79	80-100
6	300 micron	295	779	77.9	22.1	5-20	8-30	12-40	15-50
7	150 micron	172	951	95.1	4.9	0-10	0-10	0-10	0-15
8	Pan	49	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

AEE (VRP) BBMP

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-27-07** **Date: 01-04-17**

Sample ID No : 2017-03-27-07/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.43	–
2	Specific Gravity	2.61	–
3	Material finer than 75 micron	5.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Prepared by
Harshitha

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-27-07** **Date: 01/04/2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Construction of Culverts at Singapura near Govt School Surrounding in ward no 11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M.D Srinivas, Maravenahalli Village, Devaganahalli (P), Chikkaballapura, (T) & (D)
Customer Reference	:	BBMP/EE/BTP/WO/268/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-07/02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	365	365	7.3	92.7	90-100
3	10 mm	2651	3016	60.32	39.7	25-55
4	4.75 mm	1782	4798	95.96	4.0	0-10
5	Pan	202	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-27-07** **Date: 01/04/2017**

Sample ID No : 2017-03-27-07/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	23.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

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FOR CIVIL Pro.
R.KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-27-07** **Date: 01/04/2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Construction of Culverts at Singapura near Govt School Surrounding in ward no 11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M.D Srinivas, Maravenahalli Village, Devaganahalli (P), Chikkaballapura, (T) & (D)
Customer's Reference	:	BBMP/EE/BTP/WO/268/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-07/01
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1272	1272	8.5	91.5	90-100
3	20 mm	5986	7258	48.4	51.6	30-70
4	10 mm	4821	12079	80.5	19.5	10-35
5	4.75 mm	2486	14565	97.1	2.9	0-5
6	Pan	435	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-27-07** **Date: 01/04/2017**

Sample ID No : 2017-03-27-07/01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.25	–

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Harshitha

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Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-03-03** **Date: 01-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and Construction of Culverts at Singapura near Govt School Surrounding in ward no 11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M.D Srinivas, Maravenahalli Village, Devaganahalli (P), Chikkaballapura, (T) & (D)
Customer's Reference	:	BBMP/EE/BTP/WO/268/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-03/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-03-2017 to 31-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.76	–
2	Finess by Air permeablity method (m^2/kg, Min)	285.1	225m^2/kg, Min
3	Density (gm/cc)	3.17	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	205 minutes	Not less than 30 minutes

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-03-03-03** **Date: 01-04-2017**

Sample ID No : **2017-03-03-03/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Harshitha

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Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-06-04** **Date: 09-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Banglore.

Address : Vidyaranyapura Sub Division, BBMP, Banglore.

Project Name : Improvemements to roads, drains and construction of Culverts at Singapura near Govt school surroundings in ward no.11 (kuvempu nagar) in Vidyaranyapura Sub Division.

Agency : M. D. Srinivas Maravenahalli Village,Devaganahalli (P), Chikkaballapura (T) and (D).

Customer's Reference : BBMP/EE/BTP/WO/268/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-04-17

Sample ID No : 2017-04-06-04/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M20	02/04/2017	09/04/2017	149.11 X 150.54 X 150.45	22447	8.284	419.8	18.7	18.1
2	PCC	M20	02/04/2017	09/04/2017	150.22 X 149.56 X 150.55	22467	8.208	384.6	17.1	
3	PCC	M20	02/04/2017	09/04/2017	148.35 X 150.54 X 150.37	22333	8.243	412.3	18.5	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-06-04** **Date: 30-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Banglore.

Address : Vidyaranyapura Sub Division, BBMP, Banglore.

Project Name : Improvemements to roads, drains and construction of Culverts at Singapura near Govt school surroundings in ward no.11 (kuvempu nagar) in Vidyaranyapura Sub Division.

Agency : M. D. Srinivas Maravenahalli Village,Devaganahalli (P), Chikkaballapura (T) and (D).

Customer's Reference : BBMP/EE/BTP/WO/268/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-04-17

Sample ID No : 2017-04-06-04/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	02/04/2017	30/04/2017	149.11 X 151.54 X 149.54	22596	8.159	508.4	22.5	23.1
2	PCC	M20	02/04/2017	30/04/2017	150.22 X 150.46 X 150.55	22602	8.195	534.1	23.6	
3	PCC	M20	02/04/2017	30/04/2017	150.35 X 150.54 X 149.65	22634	8.284	525.1	23.2	

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-06-04** **Date: 11-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Banglore.

Address : Vidyaranyapura Sub Division, BBMP, Banglore.

Project Name : Improvemements to roads, drains and construction of Culverts at Singapura near Govt school surroundings in ward no.11 (kuvempu nagar) in Vidyaranyapura Sub Division.

Agency : M. D. Srinivas Maravenahalli Village,Devaganahalli (P), Chikkaballapura (T) and (D).

Customer's Reference : BBMP/EE/BTP/WO/268/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-04-17

Sample ID No : 2017-04-06-04/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	04/04/2017	11/04/2017	150.53 X 150.74 X 149.54	22691	8.283	410.7	18.1	17.3
2	Drain Concrete	M20	04/04/2017	11/04/2017	149.99 X 150.46 X 150.55	22567	8.178	367.9	16.3	
3	Drain Concrete	M20	04/04/2017	11/04/2017	149.72 X 150.54 X 151.64	22539	8.106	394.4	17.5	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-06-04** **Date: 02-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Banglore.

Address : Vidyaranyapura Sub Division, BBMP, Banglore.

Project Name : Improvemements to roads, drains and construction of Culverts at Singapura near Govt school surroundings in ward no.11 (kuvempu nagar) in Vidyaranyapura Sub Division.

Agency : M. D. Srinivas Maravenahalli Village,Devaganahalli (P), Chikkaballapura (T) and (D).

Customer's Reference : BBMP/EE/BTP/WO/268/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-04-17

Sample ID No : 2017-04-06-04/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	04/04/2017	02/05/2017	150.53 X 150.63 X 149.54	22674	8.172	528.3	23.3	23.1
2	Drain Concrete	M20	04/04/2017	02/05/2017	151.37 X 150.46 X 150.55	22775	8.283	521.6	22.9	
3	Drain Concrete	M20	04/04/2017	02/05/2017	149.72 X 149.96 X 151.48	22452	8.274	518.6	23.1	

Note:
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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-27-07**	**Date: 01-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads, drains and Construction of Culverts at Singapura near Govt School Surrounding in ward no 11 (Kuvempunagar) in Vidyaranyapura Sub Division.	
Agency	:	M.D Srinivas, Maravenahalli Village, Devaganahalli (P), Chikkaballapura, (T) & (D)	
Customer's Reference	:	BBMP/EE/BTP/WO/268/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-03-17	
Sample ID No	:	2017-03-27-07/05	
Sample Type	:	Kamadhenu	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	29-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadhenu	Fe500	8mm	0.393	538	651	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadhenu	Fe500	8mm	Satisfactory	Satisfactory

Note:
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Prepared By:
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-27-07**	**Date: 01-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads, drains and Construction of Culverts at Singapura near Govt School Surrounding in ward no 11 (Kuvempunagar) in Vidyaranyapura Sub Division.	
Agency	:	M.D Srinivas, Maravenahalli Village, Devaganahalli (P), Chikkaballapura, (T) & (D)	
Customer's Reference	:	BBMP/EE/BTP/WO/268/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-03-17	
Sample ID No	:	2017-03-27-07/06	
Sample Type	:	Kamadhenu	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	29-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadhenu	Fe500	10mm	0.615	554	673	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadhenu	Fe500	10mm	Satisfactory	Satisfactory

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-03-27-07** **Date: 01-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and Construction of Culverts at Singapura near Govt School Surrounding in ward no 11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : M.D Srinivas, Maravenahalli Village, Devaganahalli (P), Chikkaballapura, (T) & (D)

Customer's Reference : BBMP/EE/BTP/WO/268/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-03-17

Sample ID No : 2017-03-27-07/04

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 28/03/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.06	250.52	3.115	17682	305.8	17.3	17.3	21.6
2	Cover Slab-2	150.10	250.51	3.187	17692	301.5	17.0	17.0	21.3
3	Cover Slab-3	150.05	25.51	3.154	17680	321.6	18.2	18.2	22.7

Note:
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Prepared by
Harshitha

AE-II 150 3.187 17692 301.5 17.0 17.0 21.3

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R.KARTHIK RECHAN
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****End of Report****

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